## **IN THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS**

1. (Currently Amended) A method for enhancing recovery by epithelial cells from ischemia by targeting distinct lesions, comprising:

contacting a lesion with a plurality of agents that act by performing two or more an actions selected from the group consisting of:

- (i) inhibiting internalization of one or more intercellular junction proteins;
- (ii) promoting activation of specific signaling events during short-term ischemia;
- (iii) inhibiting degradation of proteins necessary for the maintenance of the polarized epithelial cell phenotype;
- (iv) enhancing protein folding and assembly capacity in the ER and/or cytosol; and
  - (v) any combination of (i)-(iv).
- 2. (Previously presented) The method according to claim 1, wherein the inhibiting of the internalization comprises contacting the lesion with drugs or growth factors that specifically modulate signaling through a mechanism selected from the group consisting of IP<sub>3</sub>-sensitive calcium stores, G-proteins, protein kinase C, and other kinases implicated in reassembly response during calcium switch.
- 3. (Previously presented) The method according to claim 1, wherein the promoting refers to facilitating the resorting of growth factor receptors to the cell surface thereby

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enhancing the effectiveness of endogenous and/or exogenous growth factors administered after ischemic insult.

- 4. (Previously presented) The method according to claim 1, wherein the inhibiting degradation refers to prevention of proteolytic cleavage of proteins.
- 5. (Previously presented) The method according to claim 1, wherein an agent which upregulate cytoprotective chaperones comprises an inhibitor of proteasomes.
- 6. (Previously presented) The method according to claim 1, wherein one of the plurality of agents comprises tunicamycin.
- 7. (Previously presented) The method of claim 1, wherein intracellular membrane proteins are E-cadherin, claudin and/or occluding.
- 8. (Previously presented) The method of claim 1, wherein the plurality of agents includes at least two of the following members selected from the group consisting of a growth factor, a protein kinase C activator, a GTP binding protein activator, a proteasome inhibitor, a caspase inhibitor, an agent that upregulates cytoprotective chaperones, and an agent that modulates stress responses.
- 9. (Withdrawn) The method of claim 8, wherein the proteosome inhibitor is MG132 and/or lactocystin.
- 10. (Withdrawn) The method of claim 8, wherein the agent that upregulates cytoprotective chaperones is MG132 and/or lactocystin.
- 11. (Withdrawn) The method of claim 8, wherein the growth factor is selected from the group consisting of insulin-like growth factor, pleiotriphin, midkine, fibroblast growth factor, epidermal growth factor receptor ligands, melanocyte stimulating hormone, hepatocyte growth factor.
- 12. (Withdrawn) The method of claim 8, wherein the protein kinase C activator is a diacylglycerol analog.

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## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to Figures 1 and 4, a vehicle closure assembly 10 includes a closure member 14 that is movable between open and closed positions and supported for this movement by a hinge assembly 18. The hinge assembly 18 is preferably a four bar linkage as is known in the art. A gas spring 27 includes first and second segments 28, 30. The first segment 28 is pivotally attached to the closure member 14 and the second segment 30 is pivotally attached to an arm 20. The arm 20 is pivotally attached to the vehicle body 12 and includes first and second segments 24, 26. The gas spring 27 biases the arm 20 about a pivot point 22 such that the second segment 26 lifts the closure member 14 to an initial opening pop-up position 34 (Figure 2).

The gas spring 27, hinge assembly 18 and arm 20 are preferably mounted to the vehicle 12 within a water runoff channel 16. The arm 20 and gas spring 27 of the present invention are shown mounted within the water runoff channel 16, however, it is with in the contemplation of this invention to mount the gas spring 27 and arm 20 between the closure member 14 and vehicle 12 in any position as is required by the specific application.

The initial opening pop-up position 34 (Figure 2) provides a visual reference to a vehicle operator that the closure member 14 is open. In addition, the pop-up position 34 moves the closure member 14 to an initial position such that the initial effort of moving the closure member 14 is reduced. An axis 40 along which the gas spring 27 provides biasing force is close to a hinge axis 45 and therefore provides less counterbalance force and less of an assist at smaller opening positions than at other opening positions where the axis 40 is moved further away from the hinge axis 45. Therefore, the initial opening pop-up position 34 moves the vehicle closure member 14 to a position where counterbalance force of the gas spring 27 is increased to aid in further opening of the vehicle closure member 14.

[17] The gas spring 27 biases the arm 20 about the pivot point 22 such that the second segment 26 of the arm 20 contacts and pushes upward against the closure

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member 14. An upward biasing force (shown by arrow 42) exerted by the gas spring 27 acts along an axis 40 defined between the first and second segments 28,30 of the gas spring 27. The force 42 causes the arm 20 to rotate about the pivot point 22 and upward into the closure member 14. A latch 48 holds the closure member 14 in the closed position against the biasing force exerted by the gas spring 27 through the arm 20 when in the closed position indicated at 36 in Figure 1.

[18]

The pivot point 22 is disposed a distance 44 from the axis 40 causing the biased rotation 46 of the arm 20 into the closure member 14. The distance 44 between the axis 40 and pivot 22 provides a desired amount of biasing force against the closure member 14. In response to release of the latch 48; the closure member 14 moves to the initial opening pop-up position (34, best shown in Figure 2). As distance 44 from the axis 40 to the pivot 22 is increased, the magnitude of force transmitted to rotation of the arm 20 is increased. Therefore, location of the pivot 22 relative to the hinge axis 44 is dependent on application specific parameters, such as member weight and size.

[19]

Referring to Figure 2, release of a latch 48 allows the closure member 14 to move upward toward the fully open position. The biasing force 42 causes rotation of the arm 20 thereby moving the second segment 26 and the closure member 14 upward from the closed position to the initial opening pop-up position 34.

[20]

The second segment 26 of the arm 20 includes an extension 32 (Figure 4) to further leverage the closure member 14 upward from the closed position (36 Figure 1). The extension 32 is angled relative to the arm 20 and into contact with the closure member 14. The extension 32 leverages the biasing force exerted by the gas spring 27 to lift the closure member 14. The extension segment 32 of the arm 20 additionally includes rollers 50 to reduce the affects of friction on the interface between the arm 20 and the closure member 14. Although a roller 50 is illustrated, it is within the contemplation of this invention to provide other friction reducing devices, such as low friction contact surfaces that reduce friction and protect the finish coating of the closure member 14.

[21]

Referring to Figure 3, once the latch 48 is released, the closure member 14 will move to the initial opening pop-up position 34. A vehicle operator is then free to move

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the closure member 14 upward toward the fully open position 38. The gas spring 27 assists in lifting and supporting the closure member 14 in intermediate open positions as is known.

[22] The arm 20 rotates such that the first segment 24 contacts a surface of the of the water runoff channel 16 to stop rotation. The gas spring 27 maintains the position of the first segment of the arm 20 against the water runoff channel 16 because of the biasing force 42 exerted along the axis 40.

[23]

[25]

[26]

Although a gas spring 27 is used in the illustrated embodiment, it is within the contemplation of this invention to use other springs known in the art for biasing the arm 20 and supporting the closure member 14, such as for example, pneumatic springs.

In operation, the gas spring 27 creates a biasing force against the closure member 14 toward an open position. The latch 48 holds the closure member 14 in the closed position. The second segment 26 of the arm 20 is biased to push the closure member 14 toward the open position. Release of the latch 48 frees the arm 20 to rotate and move the closure member 14 to the initial opening pop-up position. From the initial pop-up position, the closure member 14 can be lifted to further open positions.

The support and opening assembly of this invention is mountable without extensive modification to existing closure members and vehicle body configuration. The simple mounting configuration eliminates costly and complex mechanisms reducing weight and providing a smaller overall assembly, easily adaptable into various closure member applications.

The foregoing description is exemplary and not just a material specification. The invention has been described in an illustrative manner, and should be understood that the terminology used is intended to be in the nature of words of description rather than of limitation. Many modifications and variations of the present invention are possible in light of the above teachings. The preferred embodiments of this invention have been disclosed, however, one of ordinary skill in the art would recognize that certain modifications are within the scope of this invention. It is understood that within the scope of the appended claims, the invention may be practiced otherwise than as

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specifically described. For that reason the following claims should be studied to determine the true scope and content of this invention.